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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,002	09/20/2007	Geir Monsen Vavik		4604

7590 06/25/2010
GEIR M. VAVIK
OEVRE VIKERAUNET
N-7057 JONSVATNET, NORWAY,

EXAMINER

D AGOSTA, STEPHEN M

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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06/25/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/597,002	Applicant(s) VAVIK, GEIR MONSEN	
	Examiner Stephen M. D'Agosta	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 1-10 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 July 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claim 1, drawn to an analog repeater system with discrete/MMIC/ASIC semiconductors with at least one cascade and not using more than two frequency bands.
- II. Claim 5, drawn to an analog repeater system using separate amplifiers as well as opposite antenna polarization or coupler polarity.
- III. Claim 7, drawn to an analog repeater system using the Lecher principle, insulation layer(s) and suitable for short to very short wavelengths and where wave propagation exhibits very low attenuation.
- IV. Claim 8, drawn to an analog repeater system that achieves isolation between galvanically coupled or direct coupled input/output ports.
- V. Claim 9, drawn to an analog repeater system that achieves isolation between none galvanic coupled or none direct coupled input/output ports.

As seen above, the groups recite separate-and-distinct inventive concepts that are mutually exclusive from each other and place an additional search burden on the examiner.

He therefore requests that the applicant elect ONE GROUP and cancel all other groups from prosecution. These other groups can be included in separately filed applications for further prosecution.

Claim Objections

Claims 1-10 objected to because of the following informalities: Many of the claims include "numbers/identifiers" which should be removed from the claims.

For example, claim 1 is shown below with these numbers/identifiers struck-thru in an effort to make the claims compliant:

1. Analog signal repeater system ~~(1)~~ where frequency converting repeaters ~~(6-9, 10-13)~~ of any of super-heterodyne and super-regenerative type realised with any of analogue and digital signal processing and realised with any of discrete semiconductors, MMIC semiconductors and ASIC semiconductors are applied to optimize signal dynamics by avoiding echo between repeaters ~~(6-9, 10-13)~~ and where each information channel (15, 16) repeater is of duplex type, characterised by the repeater system ~~(7, 9, 12, 10)~~ includes at least one cascade ~~(2, 14)~~ which is satisfied using not more than two frequency bands for each information channel for repeating the signals while maintaining isolation against interference between repeaters and against reflections and signal echo.

Appropriate correction is required.

Art Unit: 2617

Information Disclosure Statement

The application filed has an ISA 210/237 on record with identified prior art. These prior art documents have not been included in an IDS with the filed application. The examiner makes note and will review these documents for relevance in any future office action.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10-597002, filed on 7-6-2006.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 571-272-7862. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lun Yi Lao can be reached on 571-272-7671. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen M. D'Agosta/
Primary Examiner, Art Unit 2617